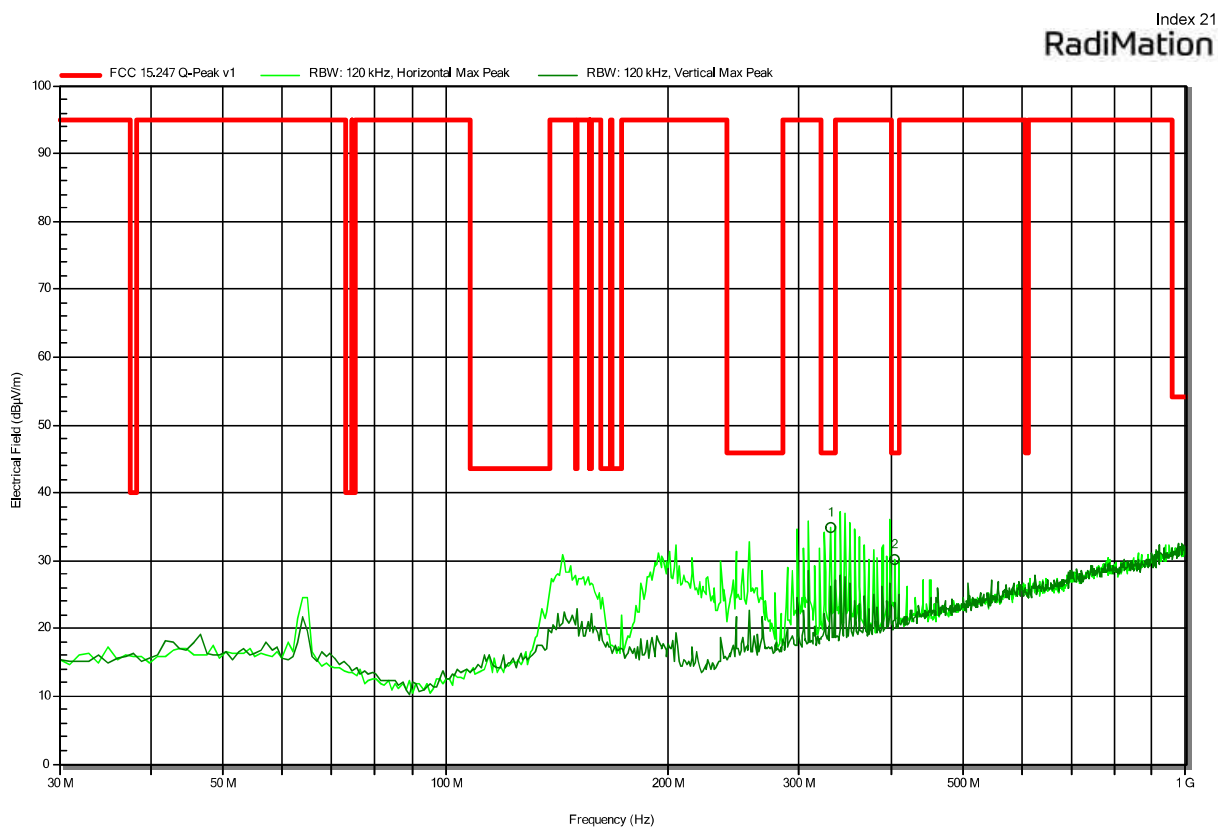


ANNEX A Transmitter spurious emissions

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2403-2497
 Applicant: Jungheinrich AG
 Model Description: UWB-Location-System
 Model: 52445055, Person Tag
 Test Sample ID: 48553
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibraimov
 Measurement software: RadiMation, version 2023.2.6
 Test Conditions: Tnom: 23 °Celsius, Vnom: 5 V DC
 Antenna: Schwarzbeck VULB 9168
 Measurement distance: 3 m
 Mode: Tx; 802.15.4_2405 MHz_Tx
 Test Date: 2024-06-14



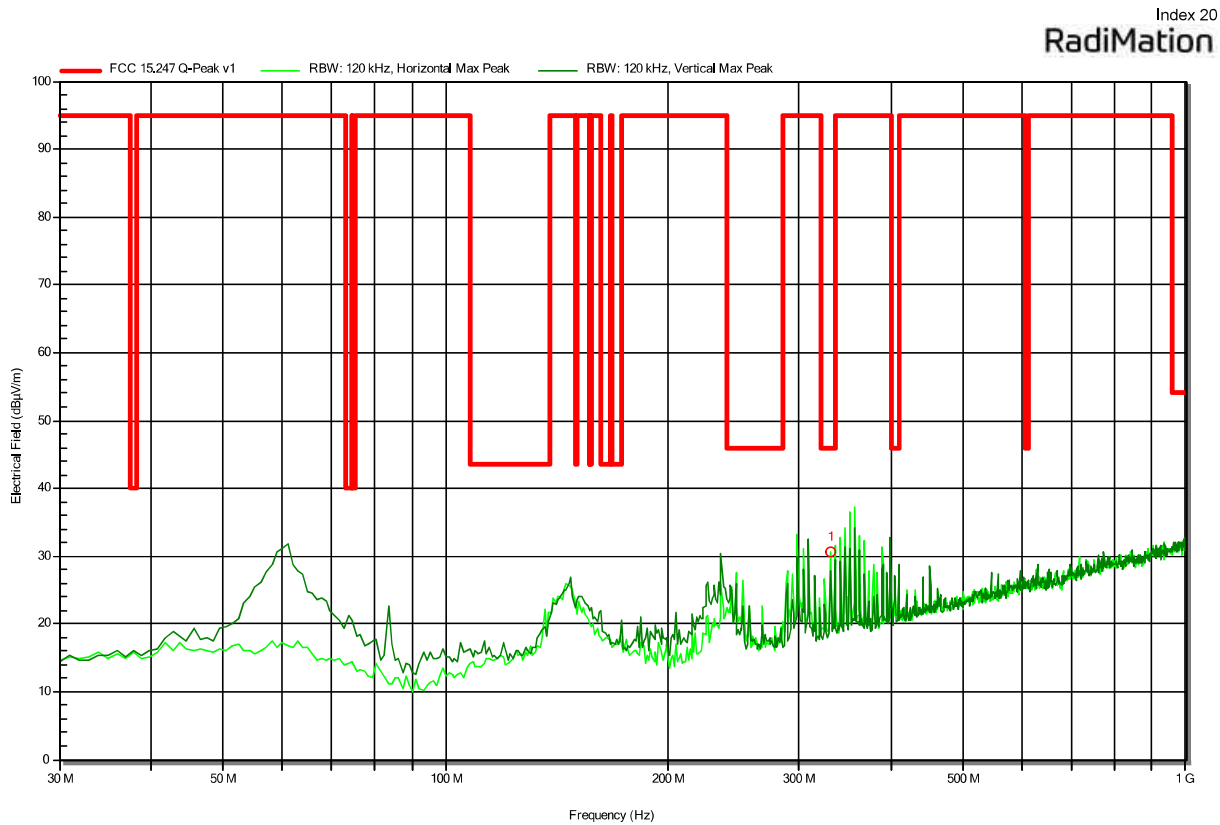
Peak Number	Frequency (MHz)	Peak (dBµV/m)	Peak Limit (dBµV/m)	Peak Difference (dB)	Peak Status	Polarization
1	330.7	34.8	46	-11.25	Pass	Horizontal
2	404.42	30.2	46	-15.79	Pass	Horizontal

Test Report No.: G0M-2403-2497-TFC247ZB-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated Spurious Emissions according to 47 CFR Part 15.247

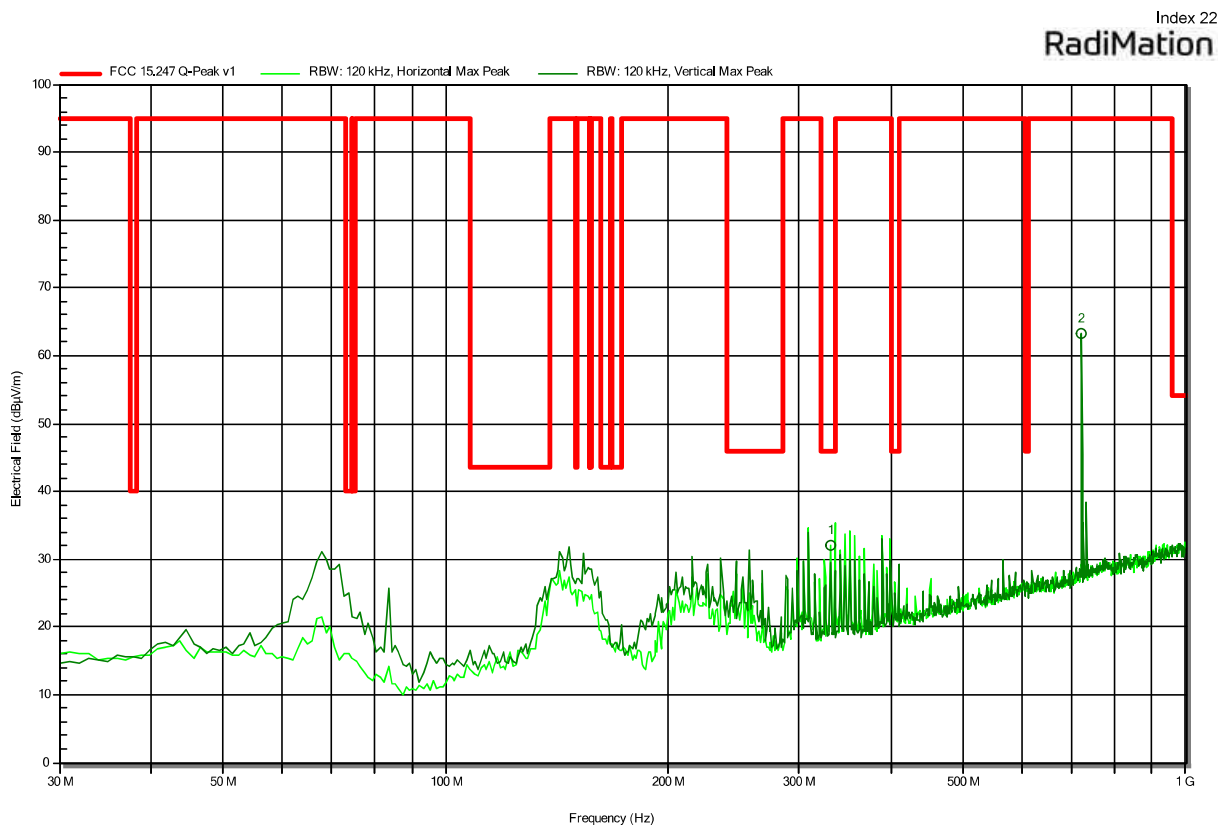
Project Number: G0M-2403-2497
 Applicant: Jungheinrich AG
 Model Description: UWB-Location-System
 Model: 52445055, Person Tag
 Test Sample ID: 48553
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibraimov
 Measurement software: RadiMation, version 2023.2.6
 Test Conditions: Tnom: 23 °Celsius, Vnom: 5 V DC
 Antenna: Schwarzbeck VULB 9168
 Measurement distance: 3 m
 Mode: Tx; 802.15.4_2440 MHz_Tx
 Test Date: 2024-06-14



Peak Number	Frequency (MHz)	Peak (dBµV/m)	Peak Limit (dBµV/m)	Peak Difference (dB)	Peak Status	Polarization
1	330.7	30.5	46	-15.48	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2403-2497
 Applicant: Jungheinrich AG
 Model Description: UWB-Location-System
 Model: 52445055, Person Tag
 Test Sample ID: 48553
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibrahimov
 Measurement software: RadiMation, version 2023.2.6
 Test Conditions: Tnom: 23 °Celsius, Vnom: 5 V DC
 Antenna: Schwarzbeck VULB 9168
 Measurement distance: 3 m
 Mode: Tx; 802.15.4_2475 MHz_Tx
 Test Date: 2024-06-14



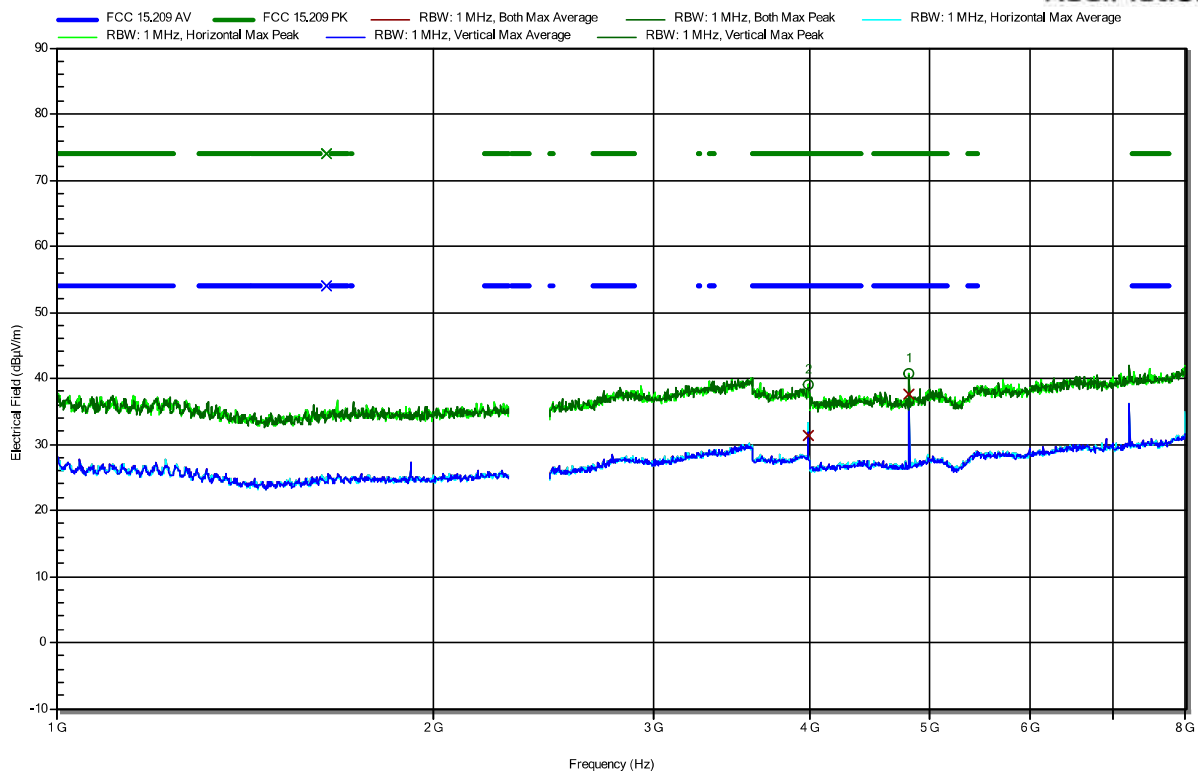
Peak Number	Frequency (MHz)	Peak (dBµV/m)	Peak Limit (dBµV/m)	Peak Difference (dB)	Peak Status	Polarization
1	330.7	32	46	-14.04	Pass	Horizontal
2	723.55	63.4	95	-31.64	Pass	Vertical

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2403-2497
 Applicant: Jungheinrich AG
 Model Description: UWB-Location-System
 Model: 52445055, Person Tag
 Test Sample ID: 48553
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibraimov
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius, Vnom: 5 V DC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; 802.15.4_2405 MHz_Tx
 Test Date: 2024-06-13

Index 17

RadiMation



Peak Number	Frequency (MHz)	Peak (dBμV/m)	Peak Limit (dBμV/m)	Peak Difference (dB)	Peak Status	Polarization
1	4810.9333	40.69	74	-33.31	Pass	Horizontal
2	3993.7823	39.04	74	-34.96	Pass	Horizontal

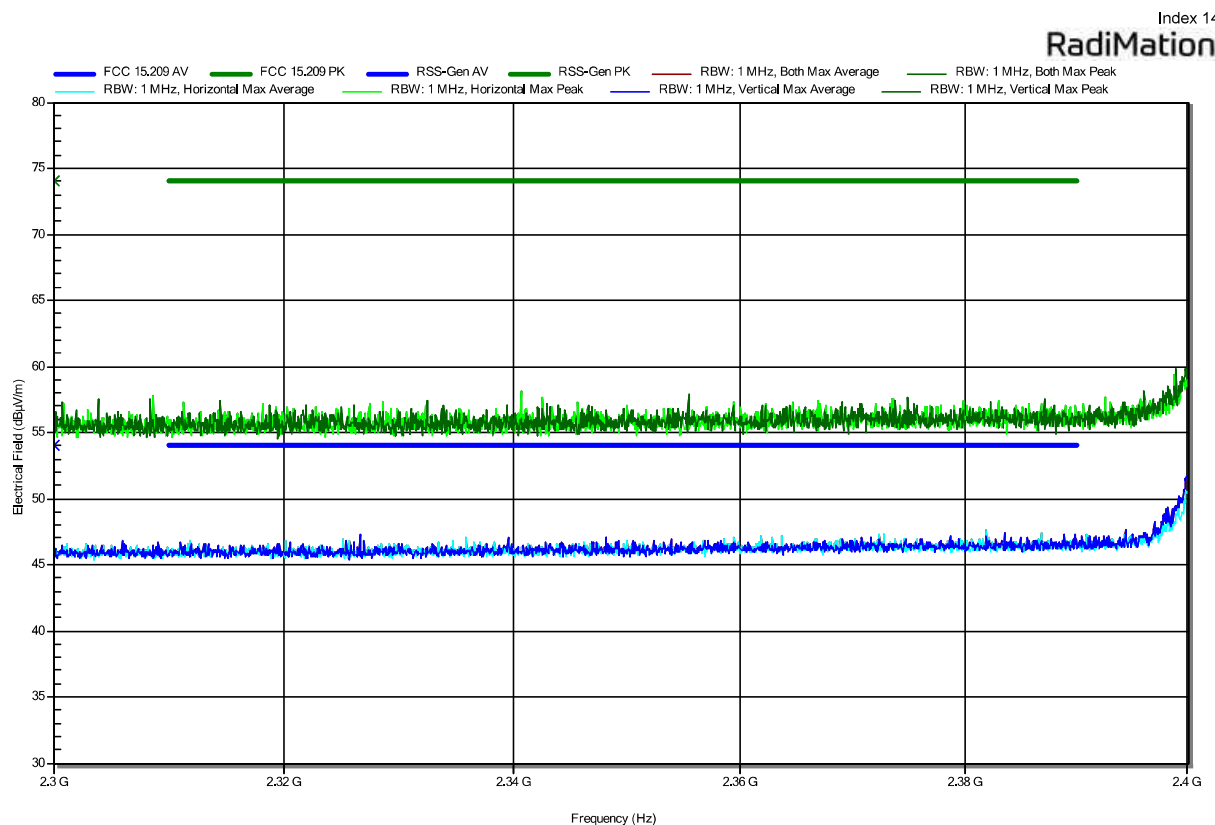
Peak Number	Frequency (MHz)	Average (dBμV/m)	Average Limit (dBμV/m)	Average Difference (dB)	Average Status	Polarization
1	4810.9333	37.47	54	-16.53	Pass	Horizontal
2	3993.7823	31.37	54	-22.63	Pass	Horizontal

Test Report No.: G0M-2403-2497-TFC247ZB-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2403-2497
 Applicant: Jungheinrich AG
 Model Description: UWB-Location-System
 Model: 52445055, Person Tag
 Test Sample ID: 48553
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibraimov
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius, Vnom: 5 V DC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; 802.15.4_2405 MHz_Tx
 Test Date: 2024-06-12
 Note: lower bandedge

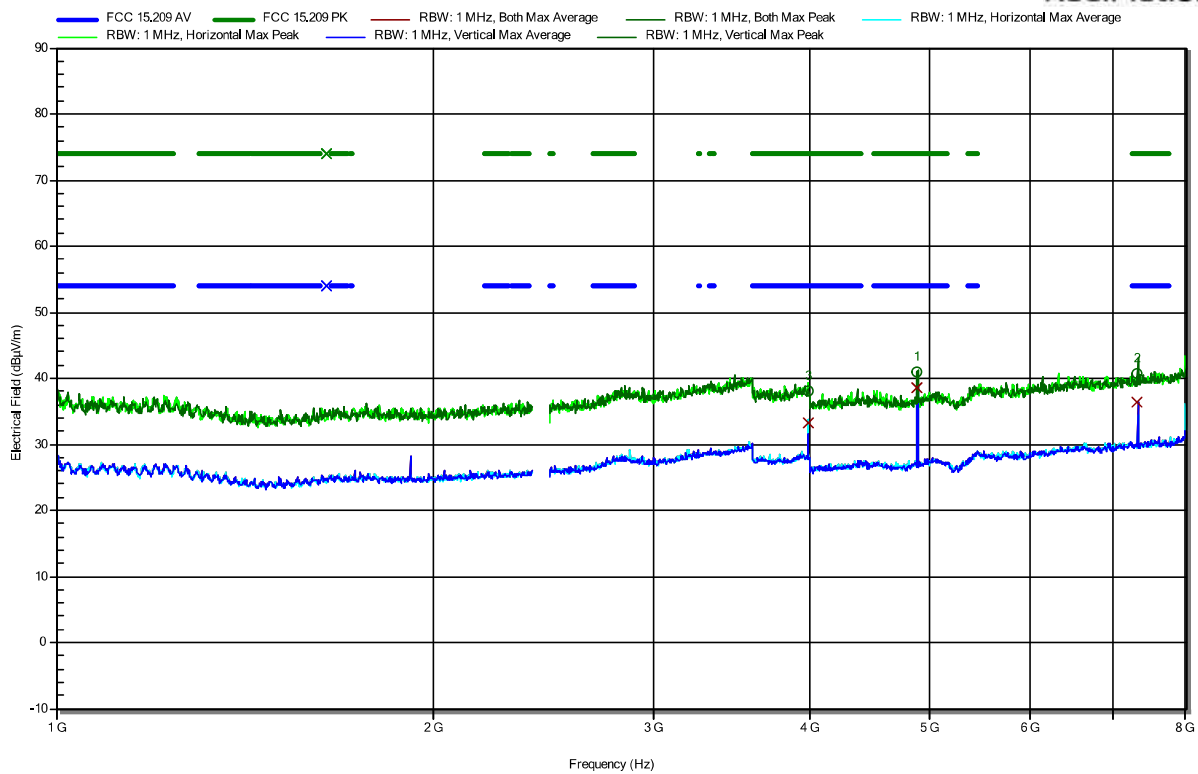


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2403-2497
 Applicant: Jungheinrich AG
 Model Description: UWB-Location-System
 Model: 52445055, Person Tag
 Test Sample ID: 48553
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibrahimov
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius, Vnom: 5 V DC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; 802.15.4_2440 MHz_Tx
 Test Date: 2024-06-12

Index 3

RadiMation



Peak Number	Frequency (MHz)	Peak (dBµV/m)	Peak Limit (dBµV/m)	Peak Difference (dB)	Peak Status	Polarization
1	4880.9333	41.06	74	-32.94	Pass	Vertical
2	7321.6	40.69	74	-33.31	Pass	Vertical
3	3993.6307	38.15	74	-35.85	Pass	Horizontal

Peak Number	Frequency (MHz)	Average (dBµV/m)	Average Limit (dBµV/m)	Average Difference (dB)	Average Status	Polarization
1	4880.9333	38.61	54	-15.39	Pass	Vertical
2	7321.6	36.42	54	-17.58	Pass	Vertical
3	3993.6307	33.2	54	-20.8	Pass	Horizontal

Test Report No.: G0M-2403-2497-TFC247ZB-V01

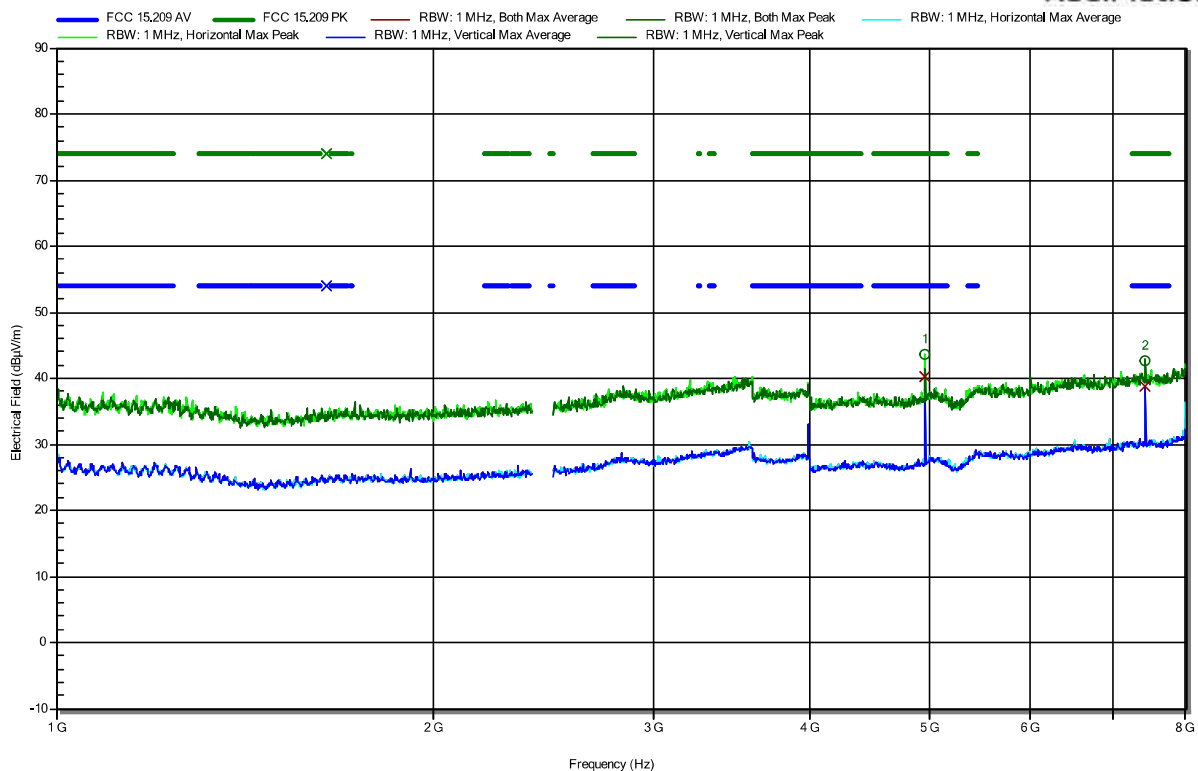
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2403-2497
 Applicant: Jungheinrich AG
 Model Description: UWB-Location-System
 Model: 52445055, Person Tag
 Test Sample ID: 48553
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibraimov
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius, Vnom: 5 V DC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; 802.15.4_2475 MHz_Tx
 Test Date: 2024-06-13

Index 15

RadiMation



Peak Number	Frequency (MHz)	Peak (dBµV/m)	Peak Limit (dBµV/m)	Peak Difference (dB)	Peak Status	Polarization
1	4950.9333	43.6	74	-30.4	Pass	Horizontal
2	7426.6667	42.55	74	-31.45	Pass	Vertical

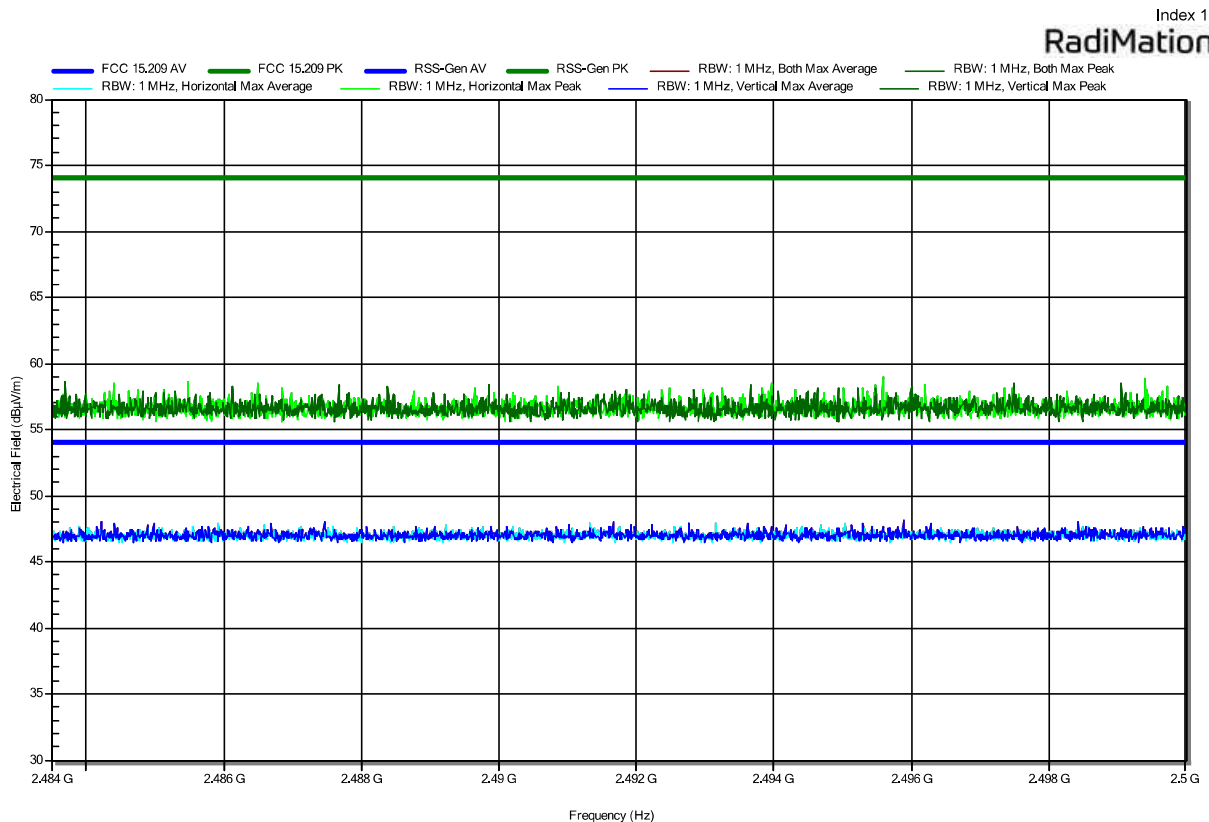
Peak Number	Frequency (MHz)	Average (dBµV/m)	Average Limit (dBµV/m)	Average Difference (dB)	Average Status	Polarization
1	4950.9333	40.27	54	-13.73	Pass	Horizontal
2	7426.6667	38.72	54	-15.28	Pass	Vertical

Test Report No.: G0M-2403-2497-TFC247ZB-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

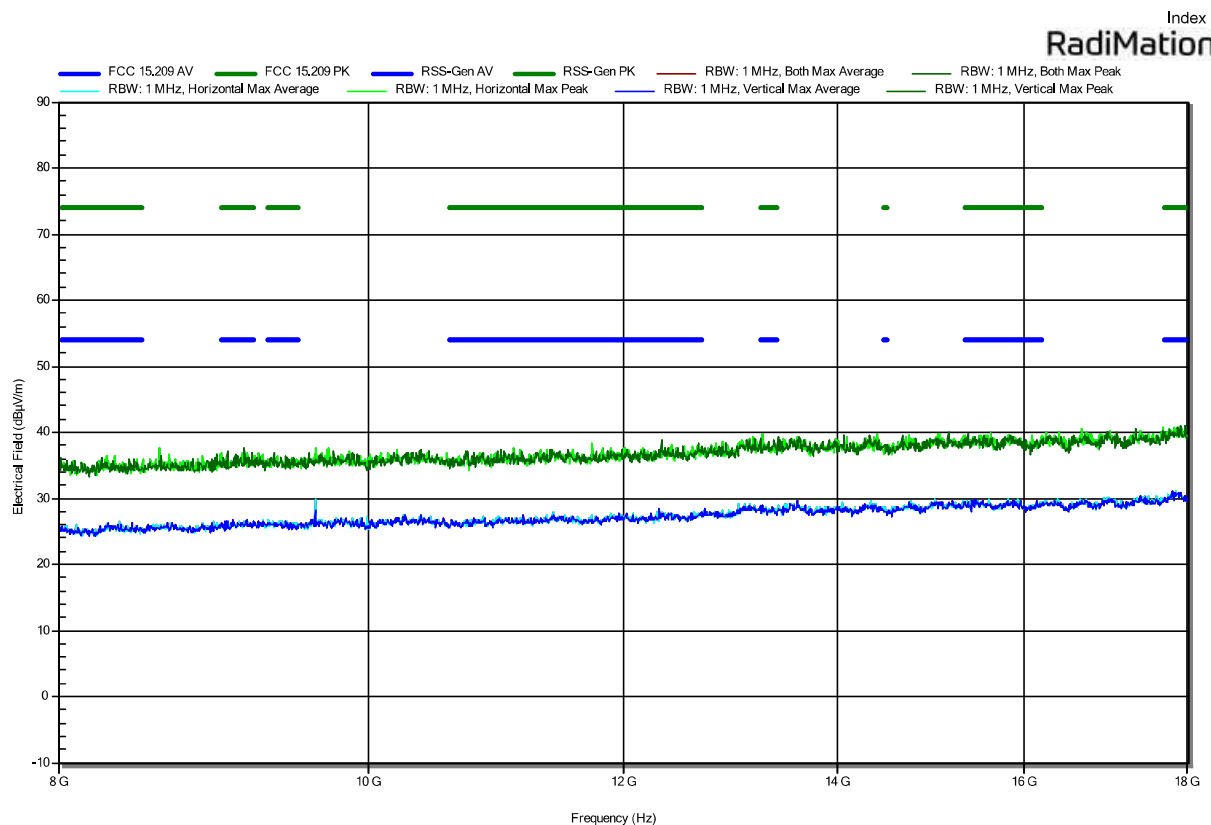
Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2403-2497
 Applicant: Jungheinrich AG
 Model Description: UWB-Location-System
 Model: 52445055, Person Tag
 Test Sample ID: 48553
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibraimov
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius, Vnom: 5 V DC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; 802.15.4_2475 MHz_Tx
 Test Date: 2024-06-13
 Note: upper bandedge



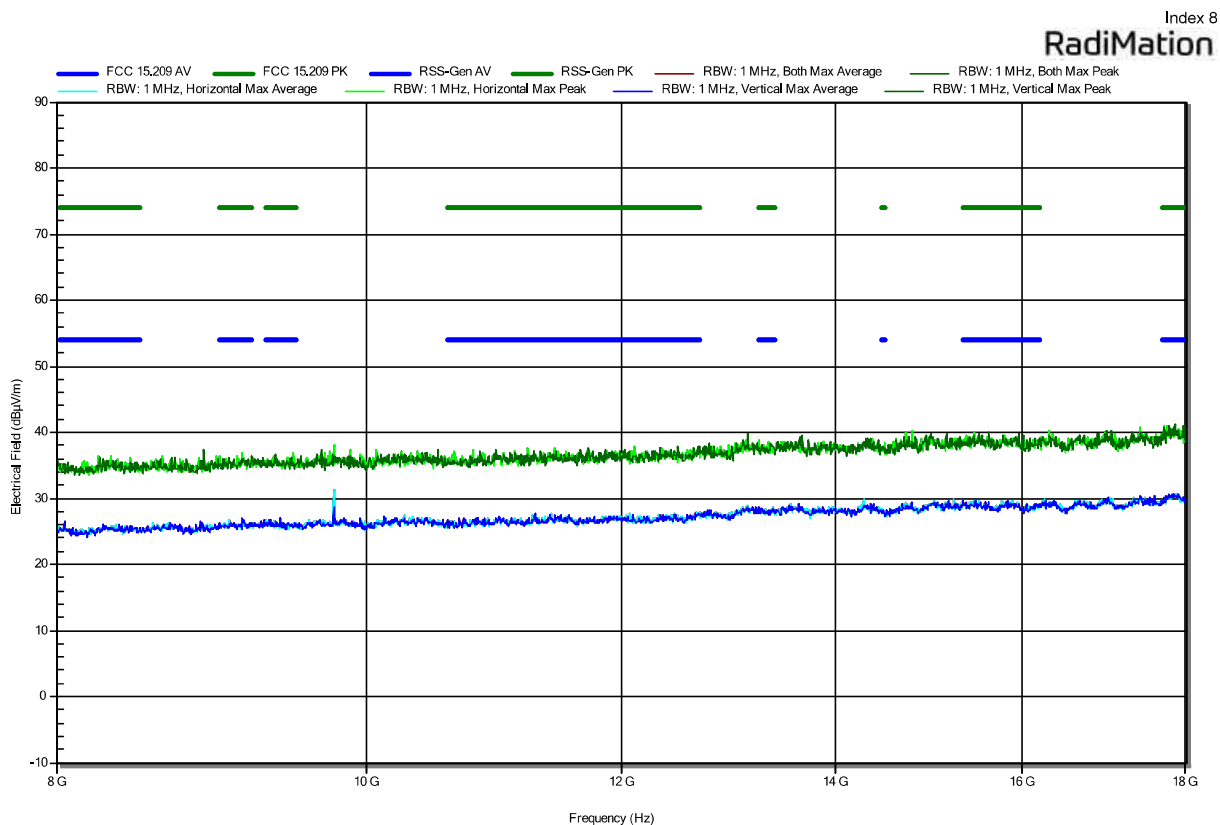
Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2403-2497
 Applicant: Jungheinrich AG
 Model Description: UWB-Location-System
 Model: 52445055, Person Tag
 Test Sample ID: 48553
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibraimov
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius, Vnom: 5 V DC
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; 802.15.4_2405 MHz_Tx
 Test Date: 2024-06-12



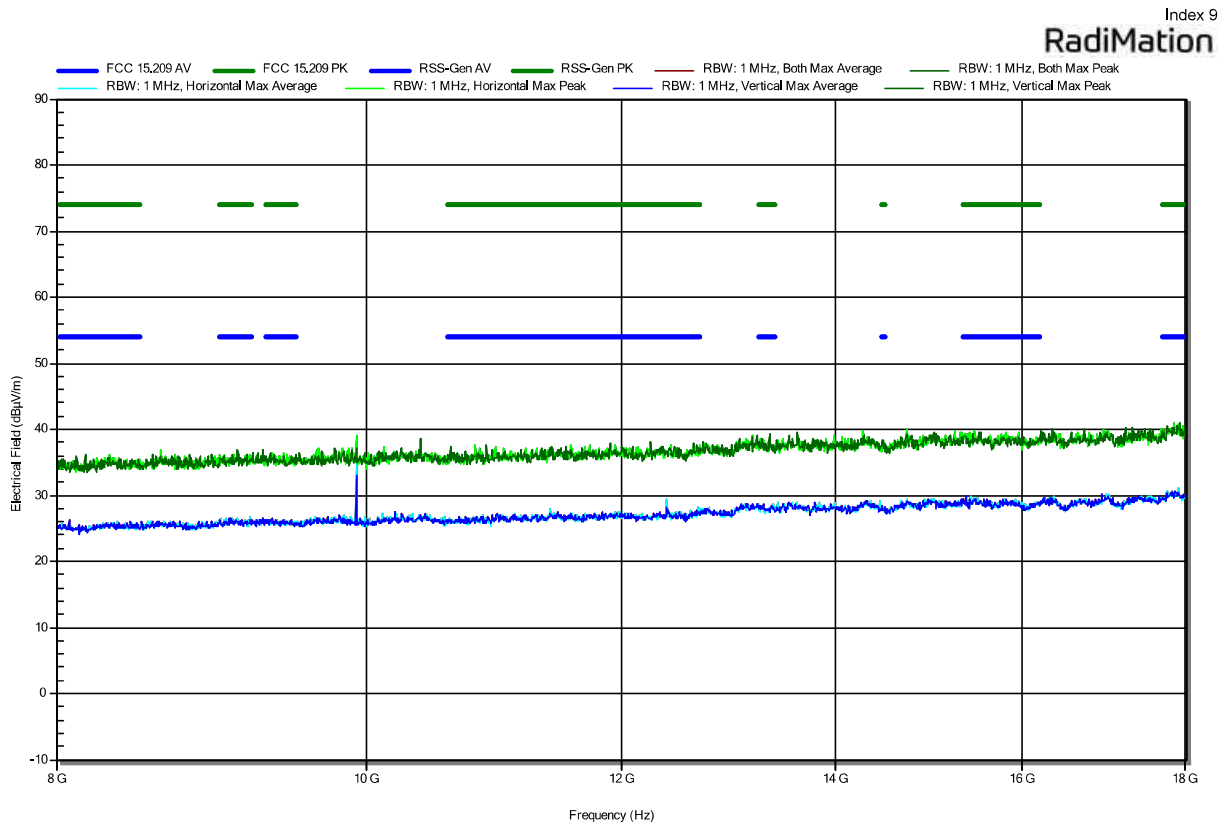
Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2403-2497
 Applicant: Jungheinrich AG
 Model Description: UWB-Location-System
 Model: 52445055, Person Tag
 Test Sample ID: 48553
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibraimov
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius, Vnom: 5 V DC
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; 802.15.4_2440 MHz_Tx
 Test Date: 2024-06-12



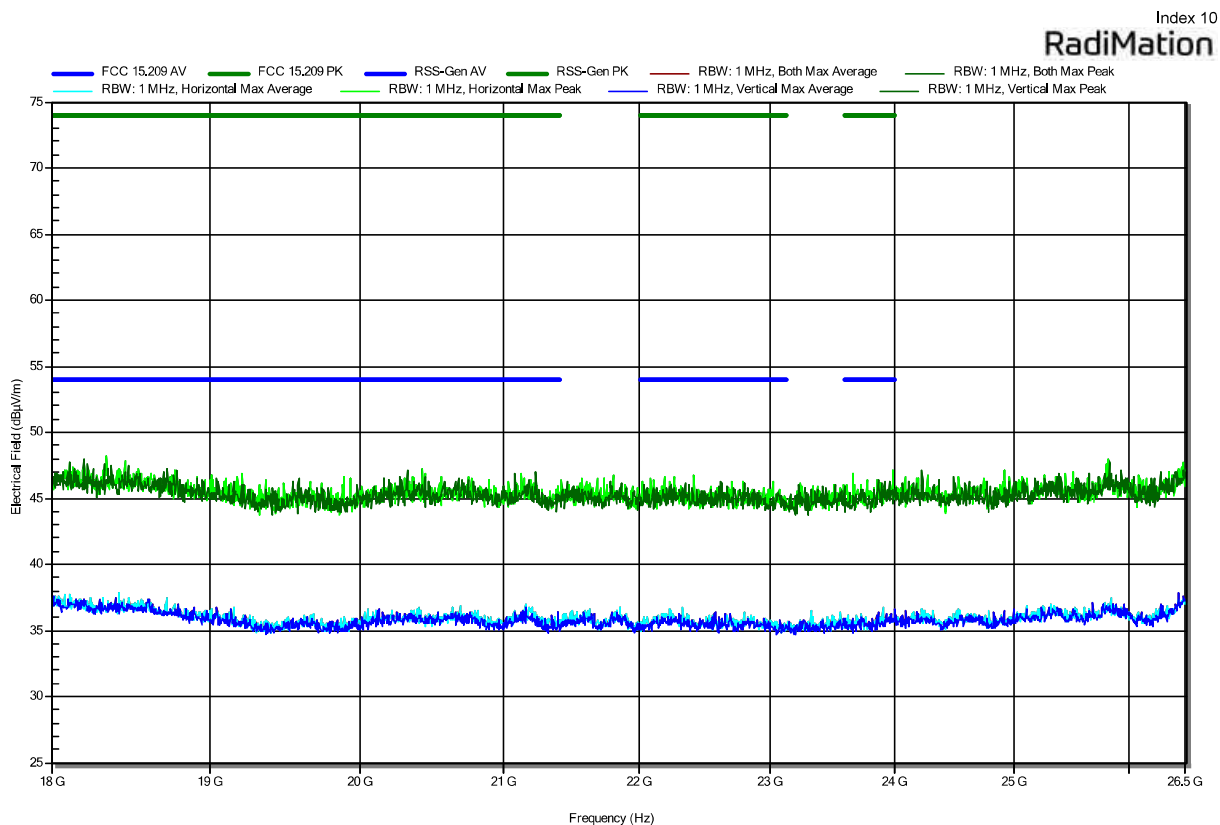
Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2403-2497
 Applicant: Jungheinrich AG
 Model Description: UWB-Location-System
 Model: 52445055, Person Tag
 Test Sample ID: 48553
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibraimov
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius, Vnom: 5 V DC
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; 802.15.4_2475 MHz_Tx
 Test Date: 2024-06-12



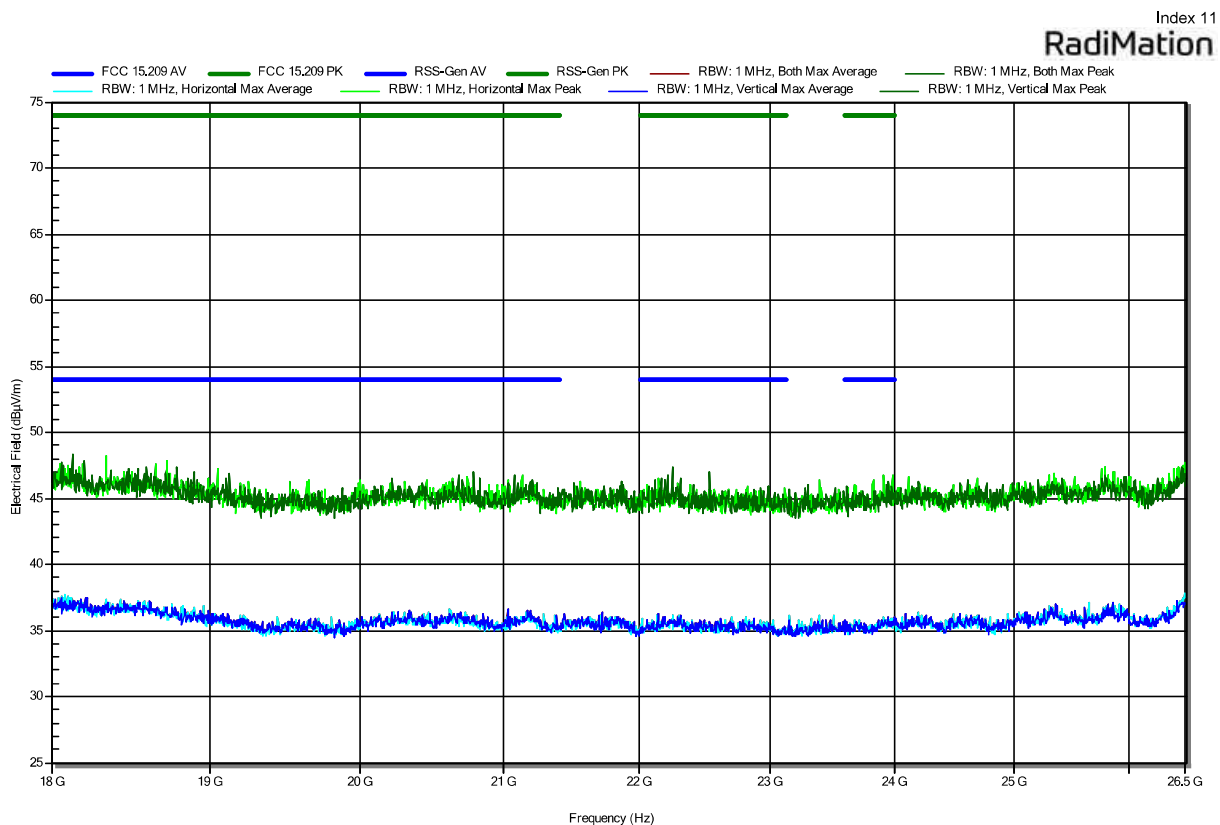
Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2403-2497
 Applicant: Jungheinrich AG
 Model Description: UWB-Location-System
 Model: 52445055, Person Tag
 Test Sample ID: 48553
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibraimov
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius, Vnom: 5 V DC
 Antenna: Amplifier Research AT4560
 Measurement distance: 3 m
 Mode: Tx; 802.15.4_2405 MHz_Tx
 Test Date: 2024-06-12



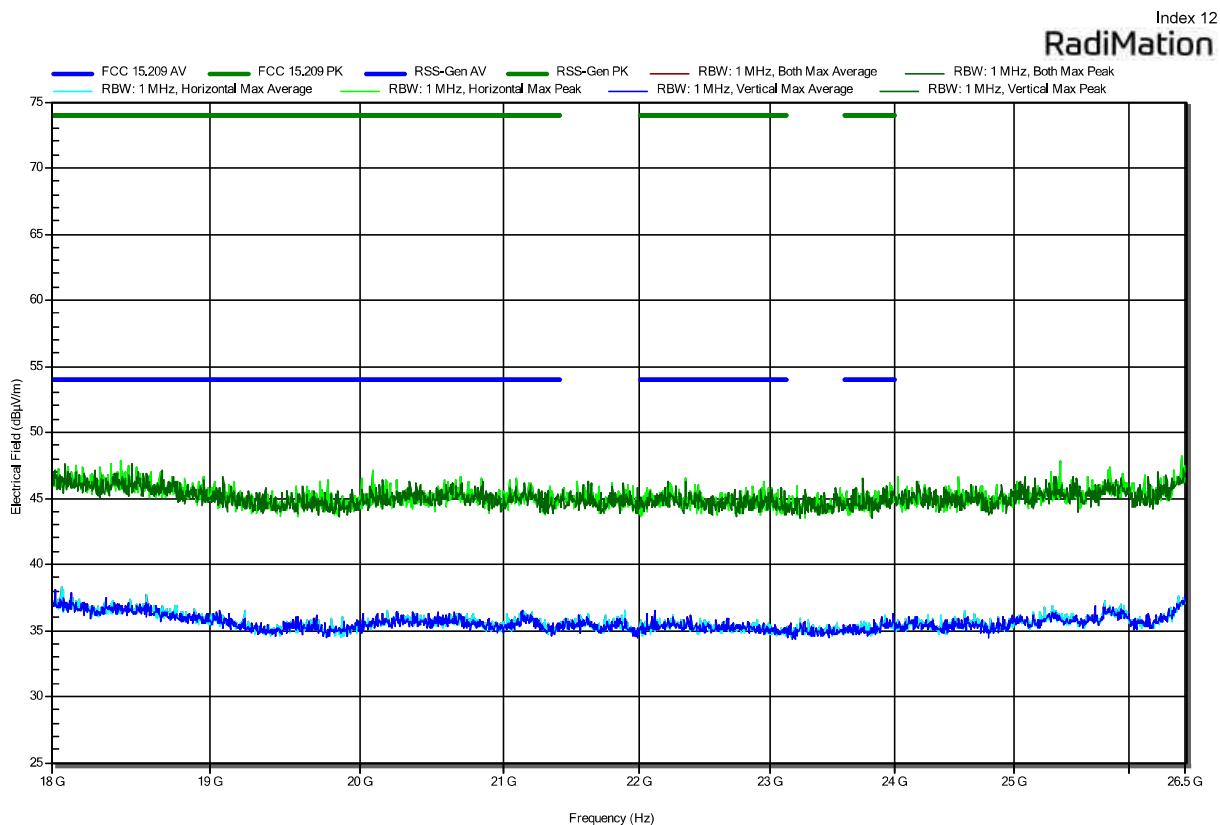
Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2403-2497
 Applicant: Jungheinrich AG
 Model Description: UWB-Location-System
 Model: 52445055, Person Tag
 Test Sample ID: 48553
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibraimov
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius, Vnom: 5 V DC
 Antenna: Amplifier Research AT4560
 Measurement distance: 3 m
 Mode: Tx; 802.15.4_2440 MHz_Tx
 Test Date: 2024-06-12



Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2403-2497
 Applicant: Jungheinrich AG
 Model Description: UWB-Location-System
 Model: 52445055, Person Tag
 Test Sample ID: 48553
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Ibraimov
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 25 °Celsius, Vnom: 5 V DC
 Antenna: Amplifier Research AT4560
 Measurement distance: 3 m
 Mode: Tx; 802.15.4_2475 MHz_Tx
 Test Date: 2024-06-12



=== End of test report ===